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Japanese Light Cruisers of World War II in action



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Japanese Light Cruisers of World War II in action

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Warships Number 25 squadron/signal publications



(Cover) Japanese light crisies Cyodo and heavy destroyer Alzasi is weep southward ahead of feet carrier Zulfask and order united of Chiqle (Nee Admini) Dazwa's Mobile Field on the morning of 25 Cetober 1944. Later that day off Cape Engaño, flagship Zulfasku was damaged by U.S. sizeral throu carriers Essaw and cassington, and Cyodo took Vice Administ Carwa and his statif off the listing carrier (see photo on page 58). During these operations Cyodo was that by the orchidar feed by a Helbert diplar, resulting in Gigli disease, but excepted and

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Dedication:

To my nonhow Kenny, with thanks for his support.

(Right) Light cruiser Tame at anchor off Paramusir (a Japanese-held island just south of the Kamchatka Peninsula) in 1942 during the campaign to take Kieka Island. Tama, like Kieo, was camouffaged with white patches over the usual medium gray.



Introduction

When the Inperial Japanese Nasy JIDN went to war with the allies on T. December 1841, the backboor of the Ight, or "B" class, critical refer sees some along or Indepth 5,950s, milliple entiriest. The newest of these warships were three units of the Sendal class, which had been containstand during 1952. The new Maganut of These Classes of 1960,000 to light, critical had been securify designed with 15.5 on 16-inch) main armanens in triple turners that could be changed over 100. 3 mt -British main goals in double harmer, theory converting them to the "A" class or heavy critises. The four Maganu'class and two Tane-class light criticals were them notified and entered World War II as out of the IN Neuropeut free.

The UN, at the beginning of World War II, operated a light criteric from of 100, 5000 to workploy of the Terrope class, forentee, 5500 to workploy of the Europe, took, forence, 5000 to workploy of the Europe, Margane, and Sender classes, the experimental Yoshori of 3,550 tows, and three "maning critices" of the Robert Class, to the old of 50 thing compared to the 50 fight critices with which the U.S. Newy entered the war. During the corne of the war. Paper constructed only four Agenc-class light critices and one of the new Opposition Classes. During this same period the United States launched some N light critices of the Aldense, Chevrland, and Worcester classes. Obviously Japan could not match the industrial might of the United States.

Blatt on experience during World War L LN doctrime and strategy led to the development of light excitors, with light pot speed, correging sequelane and lawey largould arrantees, included to be used as flagships for destroyer floidiles. More U.S. [light extinent, with the exception of the Allatta class, did not carry largolless and were talegated to operate with heavy criterion or an anti-arrant secore for earning repays or batheships. Later U.S. "light" emisses tended to be very heavy inner than 10000 tenss, whereas later classes of ligarities policy discusses electrificate and the contraction of the contraction of the contraction of the contraction of the State of the contraction of the contraction of the State of the Contraction of the Con

Prior to the 1910 launch of the first true Japanese light cruises, the 191N and operated a mixed group of "protectived" or very lightly amounted crisions, built in British, Praxich, American, and Japaneses shipparth, as well as three classes of ex-Ressian protected crisises, which had been captured during the Rosso-Japaneses War. The great French ship designer Braile Bertin designed the Translandations, as protected crisisers and recognized the Japanese deslayation in the late 1818th. The most successful of the Japanese deslayation in the late 1818th. The most successful of the Japanese deslayation in the late 1818th. The most successful of the Japanese deslayation in the Japanese deslayation to the Methods of the nature Japanese consisters. To see was designed by Tains Captain Kondo Methods of the National Control of the Captain Condo Methods o

The design of Tone led to the Chikimen class of Japaness light eccisies, which were included between 1900 and 1912. Comparable to the British Weymoulds-leds eccisies. Chikimen and islates-ships Hindan and Sudage with 44th Meymoulds ledge from 1900, after conceiving a single contract of the contract of

(Rear Adminst) and Tail (Literatusal) Yatsuchins were responsible for the design of the Transpuc-lass light crimiers, which was suspined by the British Aerelana-class light crisicer. The Transpur were to provide accommodations for fing officers and staff and, utelcally, were to lead descriper enaist suggested to the top-last suches against enemy ships while protecting descripers against shellfure from enemy descripers and accompanying consists. Transpur dates the first state of the top-last staff for lang, 51 meters 207 consists. Transpur dates the first staff staff

The Rama, Nagare, and Smiled classics controllings and lossics received on the Terrary tasks and were designed by Shows (L. Commander Kauser Teijl, Ikand of the Construction Program Department. These 5,500-ton light ordrers were inspired by the latter "Cand "D' Calescos of Hirish coviers. The longer halls of 1,600 - meters (54.7) and the seven increases to contain all the game, suppole arranamen, and aircraft outspielt, and were designed for a single of 36 leanes in 500-leanes (54.7) and the charged training and the first of the control of

Due to changing night battle strategy, the 5,500-ton light cruisers Ooi and Kitakomi were modified during 1940-41 into torpedo cruisers each carrying ten trainable, quadro-the mounts for the oxysen-powered "Lone Lance" tomedoes. The potential brundside of

French influence over Japanese shipbuilding lasted until the late 180%. Matsushina was designed by the great French engineer Emile Bertin and constructed by La Seyne in France. The second-class cruiser differed from her two sister ships in having the single 12-6-inch gun mounted aff to give her better seakceping. She was lost in 1908 as a result of a magazine explosion. French thinking did not influence Japanese cruisers used during World War III.

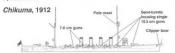




This group of accond-class cruisers marked the end of French influence in Japanese shipbuilding. Itsukushims and Hashidate had the single 32 cm (12.6-inch) gun mounted on the foredeck unlike Matsushims, which mounted the gun aft.



The first Tone was Japanese-designed and built and was very popular with the Japanese media of the time. This light crulser introduced the clipper bow found on many later Japanese crulsers.



This was the first class of modern cruisers in the imperial Japanese Navy, but at 26 knots than ware too allow for the intended role of destroyer flottlis flagship.



This class was designed as large light cruisers, much like USS Brooklyn. However, following mounting of 20.3 cm (6-inch) guns, these warships entered World War II as beenly cruisers.

20 torophoses was a winferring prospect for U.S. weathing during night action, but after install defection the U.S. Now, woulded algist contains, and the two light centisers proved vulnerable to ear attack. During 1944 and 1945, the damaged Kindanni was further modified as a Kitter of Chiesero Shaker, I manned topologo catter and was involved worked. Chiesero for the contained topologo catter and was involved worked. Chiesero for the contained topologo catter and was involved to the Chiesero for the contained to the contained t

The 5.500-ton light cruisers were so long and beavy for the weapons mounted that they represented a dead end to the design philosophy that originated with the protected cruiser Tone in the late 1890s. Taisa (Captain) Hiraga Yuzuru, who had been studying the fine art of constructing warships in Britain and other countries, developed new ideas to hold weight down while increasing armament and speed. Officials in the IJN listened, and Hiraga, along with Shosa (Lt. Commander) Pujimoto Kikuo, started the design in 1919 for the experimental light cruiser Yubari, which was to be the basis for future Japanese heavy cruiser development. At the time, warship design was a compromise among the conflicting dentands of offense (suns, torpedoes, and nircraft), defense (armor, anti-torpedo protection), and speed To improve any two of these qualities naturally resulted in a degradation of the third, unless tonnage increased or a design breakthrough that held tonnage down was achieved. For example, the 5,500-ton light cruisers were so long, due to the need to keep them narrow for speed and to fit all the machinery and armament within the hull, that armor protection suffered. The two eifted devieners Hiraga and Pajimoto, by working the side armor belts into the structure of the hull, achieved a breakthrough that allowed the 3,560-ton Yubari to mount the same offensive weapons as the 5,500-ton light cruisers but with better armor and a similar top speed. Yabayi was the first Japanese warship to have the characteristic, trunked funnels, which reduced stack numbers and directed smoke away from the bridge, along with the curved how used later on all classes of cruisers and destroyers. Yubari proved superior to the U.S. Navy's Omaha-class light cruisers as well as the British "C"-class light cruisers. In fact. Yubari was so successful that Hiraga and Pujimoto were put to work designing the next generations of heavy craisers, and Hiraga later was responsible for design of the super battleships Variate and Muserhi. Light cruiser construction languished until units of the 10,000-ton Mogami class were designed and constructed as large light cruisers similar in concept to the U.S. Navy's Brooklyn class. However, they, along with the Tone class, had secretly been designed for conversion to heavy cruisers with 20.3 cm (8-inch) guns and fought in World War II as "A"-class cruisers.

war it as 'A'-class cruners.

It was not until the Agune class was designed by Shosho (Rear Admiral) Fukuoda Keiji and Shosu (Lt. Cummander) Ozono Daisuke that replacements for the aging 5.500-ton light cruiters seemed possible. The hull lines and other superis of the basic design differed considerably from shy besigns of Hirsga and Parimoro daings from the 1920s. In fact, the basic Agune design

became known in IIN circles as the "Fokuda-style Ship Model."

Agano appears at first glance to be small and lightly

armored and armed when compared to large U.S. light craisers

like the Cleveland class. At full war losd Agano displaced

\$.354 tons as opposed to the USS Cleveland of (*) 61



Shosho (Rear Admiral) Hiraca Yuzuru was a talented and priginal navai constructor responsible for the design of the battleships Fusq. Yamashiro, Mutsu, and Alsoato, He siso participated in the design of Yamato and Mushael but is well known for his design of the exper-Imental light cruiser Yuberl and

subsequent heavy cruisers.

finally sunk by U.S. aircraft.

14.131 tons full war load. This was because the Agano-class cruisers were designed as lightly protected, fast leaders for destroyer sentais (squadrons): They were originally to have eight 15.5 cm (6-inch) main guns in two quadruple turrets. However, the design was altered, and the cruisers of this class ended up with six of the 15.5 cm guns in three double turrets, with two deadruple tornedo launchers alone with the canacity to carry two floatplanes. As destroyer sentai leaders the Agano-class light cruisers were very fast, with a top speed of 35 knots, and lethal with their heavy torpedo armament and spotter planes. They were designed to perform a different mission than U.S. light cruisers, which generally did not have torpedo armament and tended to be used as anti-aircraft shins.

The last light emiser to be ordered by the IIN was Oyodo, which had been designed as a larger Agano by naval constructors Fukuda and Ozono. This "C"-class light cruiser was the subject of much debate as the fortunes of war drastically changed for the Japanese. Oyodo was to have been a submarine sental (squadron) flagship with a carrier-like deck complete with two catapults Japanese submarines at the time did not operate singly or in "wolf-nacks" against merchantmen and samply con-

voys like German or U.S. submarines but operated almost exclusively in picket lines against enemy warships and needed the cruisers' reconnaissance aircraft to locate enemy ship formations. However, by late 1943 it was recognized that these factics had failed, and remaining submarines were increas-

ingly used to haul supplies to isolated Japanese Army units. Some huge Sen-Toku submarines of the 1.400 class (1.400 through 1.405) were designed to carry their own Aichi M6A1 Seiran aircraft for both reconnaissance and bombing missions. Following heated debates. Ovodo emerged as a 10,000-ton light cruiser similar in concept to the Tone-class heavy cruisers with six 6-inch (15.5 cm) main guns in two triple turrets on the foredeck, leaving the afterdeck free for aircraft operations. Oyodo also had a large hangar on the afterdeck, allowing her to be used later in her career as a fleet flagship with naval staff living in the modified hangar. As a "floating staff headquarters" Quada was generally kept away from buttle and was still affoat during the spring of 1945 near Kure Harbor when she was

Well into the late 1930s, midshingran training was carried out with the old armored cruisers Asumu, Iwate, and Yakumo, but as the UN prepared for war, more training capacity was needed. Original plans colled for three "B"-class 5,500-ton cruisers to be remodeled into training craisers, but these plans were cancelled when Ooi and Kitakami were converted into torpede cruisers. But the need to train additional personnel still existed, especially so after Asserta ran aground in 1935 and was hadly damaged, and plans were made to construct new ships specially designed for open ocean training of cadets. These units were not intended as warships because they were optimized for the training role. However, accontinudations aboard the new Katori-class ships were so good in comparison to other UN warships that they were used in wartime as flagships of area fleets.

Katari and sister-ships Kashima and Kashii were not considered "B"-class cruisers but belonged to the "I" class of ships named after famous shrines in the homeland. The Allies, however, regarded these training ships as light cruisers even though the design lacked the strength, armament, and speed of true cruisers as defined prior to World War II. The closest equivalent to Katori was the French training cruiser Jeanne d'Arc, which was larger at 8,950 tons full load but with a greater top speed of 25 knots. Kashima was still affout at the end of the war, and a fourth unit. Kashiwara, was cancelled early in the war and broken un on the ways.

Color Notes

While the IJN specified a single shade of gray for all warships (approximately equivalent to FS595; these colors are available from Suyder & Short, and

Hulls below the waterline were painted in a redbrown primer (approximate FS595: 31310). Funnel tops and upper parts of the mainmasts were painted

glossy black. Linoleum used on decks was a pinkish tan (approximate FS595: 20233). The chrysanthemum carried by all light cruisers on the bow was polished brass. Canvas shrouds were penerally white or cream colored.

Exceptions to this standard paint scheme were the light cruisers Tama, Kisa, and Abukuma, which were part of Sentai 21 during the Aleutian Operation. Their camouflage consisted of white hows and sterns with white natches in the superstructure that contrusted sharply with the standard medium gray of the remaining parts of the ships.

35164), each of the four major navy yards - Saseho. Kure, Maizuru, and Yokosuka - mixed their own None of the shipyard colors precisely matched the specification, and none matched each other. Chips of all four of the grays are available from White Ensign Models in their 'Colourcoats' range of enamels,



the shipbuilding section of the IJN. He allowed the Naval Staff to pile more guns, torpedo leunchers and aircraft catapults on limited design thereby making the resulting warships top heavy. He was blamed for the capsizing of the gunboat Tomozuru and relieved of command in 1934.

Dimensional Notes

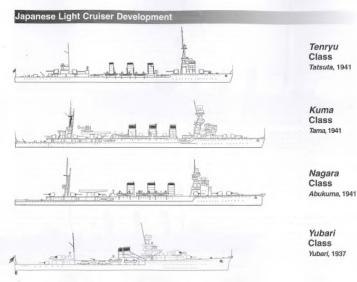
Prior to Japan's adoption of the metric system in 1921, some warship designs were made in English measurements. In this volume, dimensions of ships are given first in metric units, with the English units in parentheses.

English measures were also used in the official designation of naval guns before 1917, but changed thereafter to metric. However, the "official designation" of a naval sup was generally not its actual caliber but instead a "nominal caliber" rounded-off to the closest whole number from the actual caliber. For example, the '8 cm' gun had an actual caliber of 7.62 cm because it was based on a 3-inch Vickers prototype. In this volume, the official UN designations for Japanese naval guns are used, with nominal calibers given first in metric units and the English equivalent in parentheses. (to 10)

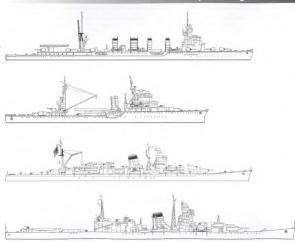


Tone, seen here in 1919, shows the rakish clipper bow which ended up being standard on many classes of heavy and light Japanese cruisers. The four-stack ship behind *Tone* appears to be a *Chikuma*-class light cruiser.





Japanese Light Cruiser Development



Sendai Class Sendai, 1941

Katori Class Kashii, 1944

Agano Class Yahagi, 1945

Oyodo Class Oyodo, 1944

Tenryu Class

Exportence during World War I convinced planners in the LIN that the proper role of the "B"-c.ass (Fght) crosser was that of leader of a fast destroyer sental (squadrum). As the newsous Tone and Chikuma classes were not fast enough to carry out this mission, a new class of small, light crusers was ordered. The lead ship Tenryu and sister-ship Taisute were known as 3,500-, on or "sma, -model crussers" and were named after homeland overs. To achieve the aga top size of 15 km/s will the air at any great the later as retous weight some measures were used, including the first Japanese use of high tensile steel for construction of the ha instead of mild steel. A narrow destroyer hall design was used, as was destroyer-type fastrunting muchinery, resulting in a longer hall than in previous light crossers in order to contain the required ten bowers and to have enough room to mount the gun and torpedo armament. The by ship length-to-beam ratio of 11/3 was a distinctive feature of these ships, and a similar ratio carried over to the pext three light cruiser classes as well Tenryu and Tatsuta were the first true Japanese aight cruisers and and very Jone cureers listing from their launch in 1918 to the loss of Tearva in December 1942 and Tatrata to March 1944

in wartime form. Tenryu-class light cruisers were 142.7 meters (468 feet) long with a beam of 2.3 meters (40.5 feet) and a mean draft of 3.9 meters (13 feet). Standard Tenrya displacement was 3,230 tons while their 'trial displacement' (defined as full loud displacement less one-third full load fuel oil potable and reserve feed water, and provisions) was 4,168 tons. Full war lose increases to 4.621 tims. Ten Kappon destroyer-type boilers drove three sets of seared terbines providing \$1,000 shall necespower and tarning four shafts with three-bladed propellers. Max.mum speed was 33 knots. Planned radius of action was 5,000 nautical miles at 14

knots. Complement was 337 officers and mea

Tenrun-class side armor was a 2 inch (50.8 mm) waterline belt. The deck was armored with strich (25.4 mm) steel prates, and the country tower was immotested.

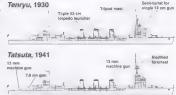
Tenrux class main armament in waxtime was four 14 cm (5.5 inch) Type 3 main gues in four single mounts. These were arranged two on the foredeck and two on the afterdeck. The secondary battery during wartime consisted of up to ten 25 mm (1 inch) heavy machine guns in five twin mounts as carried by Tatrata during 1944. Six 53 cm (21 arch) Type 6 toreedoes were carried in two triple, trainable mounts

Lend ship Tenryu was ,a.d down on 17 May 1917 at the UN's Yokosuka Naval Yard and launched in March 1918. Tatxuta was laid down on 24 July 1917 at the LIN's Sasebo Naval Y rd. of tame to a May be 8 following the remon sections of the Penrya become lare ship of Destroys, Seed. 2 and Tabuda was as a may flooding a Jestroyer Seeda 1.1 and they were jost during World War II Tenryo was assumed to Kure Naval Station, and Tatsute wis as gown to Sign News Silver Blot agreed Service Conference Complete River and the Shanghai re di ng weer D' no againe ng 's Looi fatsuta concesso nonhora Chapter oversity of streets a letter defend 1 Bus he light entries work at a required and training missions and were placed in reserve at their respective stations where they were refuedical relate 938 Mark observes related in a local of fit is body and or account of the 8 cm (3-mch) and 13 mm (52-mch) gun mounts with two twin assumts of 25 mm (1mch) Type 93 heavy machine guns. Plans to remodel them into anti-aircraft cruisers were dropped due to the construction of the Akizuki-class large anti-surcraft destroyers, which displaced 3.700 tons full load and were loager than the Tenrya-class light coursers.

Territy and Taxuta entered World War II in nearly the same configuration as when they were launched in 1918. They operated with light crinises Yubari and destroyers as part of Sentar 18 during the seizure of Wake Island at the beamning of hostilities against the United States. Scutas 18 took port in actions around Truk Atell and helped cover landings at Lie and Salamana, New Gumea, over the next few months. They covered and ags on Shortland Island. returned to the anchorage in the Mowe Passage near Kavieng. New Ireland, and then to Truk on 10 April 1942. Following the cancellation of the invasion of Port Moresby, New Guinea, Fentry and Infrutare a ned 1 Mar. in N 1 x Yara 1 super a we with a cold a consedure refitted during June 1942. They returned to Truk, somme un with Fubari in time for the Solomons Campaign. From 30 June to 6 July 1942 Sentai 18 escented transports carrying un airfield construction unit to Guadalcanal. After this the two crossers joined elements of the Fighth fleet, which was assigned to protect the Bisman, k. Solomon, and Panua Islands

While Tatsuta was supporting the abortive landings at Bunu, Tenryu sorted with heavy cruiser Chakat and took part in the Basile of Savo Island, or the First Battle of the Spiomons us the Japanese called it, on 8 August 1942. Tempya fired 80 , 4 cm (5.5 inch) shells and six 53 cm (21-inch) torpodoes in this battle. Following the Japanese victory at Savo Island in a battle that resulted in several Allied heavy cruisers sunk in night action, Tenrya and Tatsuta took part in several support missions to Buku and Guadalcanal and supported action to take an Allied surfield at Gilli Gilli. Then, on 2 October 1942. Toursu was struck by a beenh was dimensed by B-17 bombers of the 19th Bomb Group of the 5th Air Force . Wenty-three crew men were kelled, but the damage was patched up locally by the repair ship Yamahiko Maru, and Tenryu was soon back in action. On 13 November 1942. Tenzon and her destroyers provided Javer for the heavy crussers Suyinga and Maya as they bombarded Benderson Airfield on Guadalcanal On 10 December 1942 Sentar 18 was deactivated, and Tenrus one Tatsula were attached directly to the Eighth Fleet. Then on 18 December 1942, while escorting transports that were to land troops at Madang, New Guinea, the fleet was attacked by B-17 bumbers, which damaged the transport Gokoku Maru. While covering the landings, Tearva was hit by toroedoes fired by the submanne USS Albacore, after which the valuant hight cruiser turned over and rapidly sank. She was removed from the Navy List on 1 February 1943

Taxanta was related at the Manzura Naval Yard during February 1943 and later was assigned as the flagship of the newly formed destroyer Sentin 11 attached to the third fleet. The



light crusive trained in the fillind Sea and then assisted as transporting proops to Possipe from 212 of 27 October 1941. By early 1944 the Pastife had turned into a fac more diagrams place and in March, while executing a crossyo to Sapria, two torpedoes of a speed of four fixed by the schmarner USS Soon Lance for Editional The solubrams on softer two respectors, hit do were lapping target. Kolzavo Marca, and both chips such as the same time. Tatasia whose cancer that diagrad from 29 May 1918 to 1 March 1944, was removed from the Navy List on to 10 May 1944.

Kuma Class

Fifteen 4,500-ton light crusters were lated down and completed between 1920 and 1925. These light crusters shared the same halfs but belonged to three distinct classes. The five Model 1 kip to 1 the Ruma class were the first to be designed and built, followed by six Model 2 ships of the Nagarra class and three Model 3 ships of the Nagarra class and three Model 3 ships of the Standard Ruma cannot be to the custom as that times.

Wh. E Temps and Tatasia were being contracted, design was started on the Kawar-Garbit Course. These was waships tall the same base lauli design as the earlier class between et al. In place an include a serious form of the more powerful machinery. The experiment of the place and the

The Kuma class was original y fitted with 53 cm (21 inch) torpedo tubes, but later when they became available, 61 cm (24-inch 17ye 8 mounts for the lethal "Long Lance" torpedoes were fitted Seaplase adaptast added daring the 1930s were removed during wartinte, and heavy, standardized aint internil armament was added.

Assume class armor was a side belt 73.2 meters (240 feet) long by 4.9 meters (16.1 feet) long and 6.3.3 min (2.5 meters) which. The sleek was armored by 1.1-inch (12.8 min) plates. This armore was intended or protect the ship's virials against -linch shells curred by contemporary U.S. destroyers. However during World War ILU. S. destroyers carried five 5 inch (12.7 cm) usus, to which the Jaconeses 5.500-to lash crusters were more subscribed.

The armament of the Auma c. as in wartime was seried 14 cm (1.5 % inch.) Type 3 mum guint in generate. Some genouses Some of these main guins were removed during World Wart If from some crousers in favor of standardized 25 min (1 inch beavy machine guins involuted in triple or does the mounts. Some Kurnae class wartilips carried up to 36 of the heavy machine guins in various combinations of mounts. Sixteen 61 cm (12-4 inch) timesfees were carried, to be launched from

four two or quadruple mossues. In additions, these light crussers could carry up to 48 meets. Some shops of the class had suggle contribute excepts had carried one scapina's Some of these were removed during World War II in favor of additional brashy machine gain prisons. Two ships of the class, 60 and Additional wave remotified during 1900 and 1911 to mount see quadruple repedo hanchers for "Long Lance" toppedoes. Liter, Additional was again modified to carry eight Karrier (Heaven Shalers) "manned sources torpodoes, which could be fancated for carrying the family of the fancated during the complexes, which could be fancated to carrying the family of the fancated during the complexes, which could be fancated to the contribute of the contrib

The Ruman-Law light-crimens were all laid drown between 10 Angease 1918 and 10 June 1919 and were homewho between 14 July 1919 and 13 December 1912. Anima and Antidanum were built by the LIV at the Saecho Nivel Yand. Tames and Kita were built by Missolwhish ta Nagasaka and Gold was consistented by Kamasaka in Kohe Following contractioning 1912 All Samas and Kita Robert Polithering contractioning 1912 and the Saecho Sae

Scaplane catagoths were added to all the Anome Casa light cuttasers during refliring between 1930 and 1934. Several plans in modify the Kamaz. Tamaz, and Kitakamii into rumelayers and transing ships werter cancelled when Japan docuted to renounce the new 3d treation. Perhaps the most significant pre-war modification to the 5,500-ton light crussers was the rebailding of Audokum and Ook into "Higher" Tornoofo Europea". Divining 1936 the Physiol General (**) 483

Tatsuta at Yokosuka on 25 August 1919 shortly after completion. The single foremast was latter replaced with a tripod mast. These light cruisers were designed to be destroyer flottlla flagships, but contemporary destroyers were so fast that more capable light cruisers were needed.





This starboard view of Tritute on 25 August 1919 shows that the trainable launchars for the 53 cm (21-inch) forpedices were very close to the water They were elevated in 1928 to reduce welness. Lister classes of Japanese destroyers were longer and more heavily leaved to the light cruisers.

Armament



This 1927 photograph shows a remarkable line up of the battleships *Mulsu* and *Regato* with the light cruiser *Taisuta* on the right. The extensive rigging of the *Tateuta* is clearly visible.



Tarryu weighe anchor in late 1830. The new tripod foremast is clearly visible as is the new RDF antenna added in 1822 between the sit funnel and the mainmast. The torpsdo tube mounts had been raised by this time, and a new lookout port installed below the upper sper on the fixement.



Saff worked out a glian to contact the numerical upencentry of the U.S. first by anaching an ingle with this paramet with these made why the mean days by the large 90 storage powers to approach, prospect to approach prospect to provide proposed to great the proposed proposed to great parameters are made with the "Long Lines" to recommend the "Long Lines" to provide size which has been the insight of U.S. defenses reago allowing topical consents in made detectations; proposed must not U.S. standards. The new light extensive were modelled in monoton to exercise areas may admine formed. Internet, and the protential hashed of 10° Lines, Lines to be exercised as the proposed in the proposed of 10° Lines, Lines to the contract of the proposed in the U.S. then the left hospital of 10° Lines, Lines to the contract of the large Norman delication and delication to U.S. the second long that the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the "Long Lines" to the large Norman delication control the "Long Lines" to the large Norman delication control the "Long Lines" to the Long Lines (Lines Lines Lines

During World War II the antijurcraft armament was standardized and increased in all Auria's lass ships, and No. 21 a search radar units were added

Kame was coagned to Serme In in the start of World Wei II and sock part in the invasions of the Philippines, since the faulther is western Mindanes and Crobe While rounding CrOss. Amount was In this year that the read to the topics, friend by a TP-back Feshware there is the time of the since the size of the property of Mentals and the size of the size of the size of Mentals of Mentals and the size of the size o

Tama and Kiso operated together as part of Sentas 21 with the Fifth Fleet at the start of World War II. Following cruises in northern waters, both ships, along with Abukumu were

camoutlased while preparing for war at Akkeshi. Hokkaido. These warships were among the few camouflased units in the IDV During the Aleutian Operation Senter 2, was assumed to the Kiska Seizure Force, and the two light crussers, along with destroyers, excepted the myasion force and supported the landings on the Aleutian Island of Kiska on 7 June 1942. Tema alone with light cruiser Abukuma, heavy cruisers Nachi and Maya, and severa, destroyers, fought the Buttle of the Komundorski Islands, engaging a similar U.S. fleet of heavy crussers light cruisers, and destroyers. Fanar fired four torpedoes and expended 128 shells, but in return was hit by two 5-inch shells on the catapult. The two light crusers also took part in the reint recently of the Jananese garriss on Kiska from 11 Sentember in 18 Sentember 1942 and the withdrawal from that island or 28 July 1943. Following the Kiskn withdrawa., Tamo and Agra were assigned as fast transports and carried army units to various island a resource the southwest Pacific. Both were dumaged in aerial attacks near Cape St. George while steam. ing to Truk and subsequently underwent renorm until December 1943 (Target) and March 1944 (Also). Following repair, Tama acted as a transport and then helped cover Vice Adnural Drawa's carrier to collection, the Battle of Cape Engaño. She was hit by an engraft lorner is and NASA A retired toward Okinawa, only to be tornedged again by the submarine USS Sotton The beht crusser broke up and sank with all hands on 25 October 1944 and was taken off the Navy List on 20 December 1944

Following the Battle of Leyse Golf Kiso was acting as a fast transport in the Phiappires when several bornles dropped by U.S. arrantal from Task Picro: 88 bit her as she was trying to seam out of Manth Bay on 13 November 1944. The ship settled in shallow water is allow taken of the Navy List on 20 March 1945. The wresk of Kiso was re-fleated on 15 December 1955. towed away sigh broken on on 30 January 1965.



Tenryu off the Japanese bastion at Truk Atoli during July 1936. The tripod foremast is visible.

Tenryu in 1926 prior to modification of her pole foremast and torpedo tubes. Shrouds cover the torpado teunchors.



This 1938 view of Tenryu clearly shows her tripod foremast and the much taller torpedo isunchers, which had been Installed to prevent water damage. Tenryu and her alster ahip Tatauts fought throughout World War II in this conflouration.





The temped sentence (the red Mindagen were operating, with vention with the significant Windage (the Health Windage) and the paint fitting to the load friend in the paint fitting to the load friend in C. Witt view of the south of the paint fitting to the load friend in C. Witt view of the with the paint fitting to that friend in C. Witt view of the south of the paint fitting to the standard of the standard of the south of the standard of the standard of the south of the standard of the sta

Addition will high some Almo were restoring from a reason to a sixth, he time as the boundaries of the a finish southeastern. MMA import Analous we conside the Napport for Analous was considered to Napport for Analous was considered to Napport for the Analous and Analous and the Analous and Analous an

Nagara Class

The second class of 5.500-ton light cruisers to be completed. Nagara and sister ships Isuzu Yura Natari Ainu and Abukuma were somethe the earl of Auma cross whit armisers di terra la toles design detti a antivo une medifications. These worships were designed a be Hagships for cruiser des rover and submining septors. As destroyer water reasons the Ampara of the highly convert water for an 36 knots, an anced any were arrived through W. 11 Wirt II with the Ichia Type 33. Forg Tarce, torpe sies. As so matire so to ensert they wire inginals had with the ignitive enail scaplings be with the bridge of a financial platform extending in the father a teather considered and were the commended to the commended to the commended the second to the commended to the ment are not if hird to prohibe out he my by effecting hings off platforms to be a try to the other of the period of each in the sea planes it interestings I S and a mention the the trades agree per handes and to green supposes a mired with torpedoes, only the much later Atlanta class carried tornedoes.) The 5,500 ton cessisers were also to double as minelayers, and each ship carried 48 of the "B" model improved Number 1 mines. The light crusers used these mines offensively by laving them in front of enemy formations, a concept which did not work very well in actual com-

Vagane (las light cruiers were fild intern (VL) Bett in length with a bount of fild.

The reservoirs of the animal off, the A vice or 5 (54) While Edited Some and a company of the A vice or 5 (54) While Edited Some and a 5 (50) toom while rised displacement was 6,500 toom with a rised displacement was 6,500 toom while produced with the A vice of the



The new class leader Kuma running trials on 6 July 1920. The 5,500-too light cruisers were very long and narrow to make room for the boilers, turrets, torpedo launchers, and aircraft fac lities that were carried.



(Abovo) The boxy corning tower of Kiso was designed to house a Type 90 scaplane, which was leunched forward over gun mounts one and two. This photograph was taken during mid-1922



1922 clearly Stoness Tibel alternale type of conning tower used on this Hoht cruiser class. The ship sits guite high Later as their was increased the 5,500-ton tight cruisers sat much lower in the water



The early clean coming lower and bridge and tripod mast of Oor is evident in this September 1921 image. The front semi-turrets are covered with canvass.



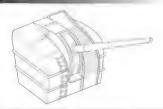
Oor laken 22 June 1924. The characteristic well containing a torpedo launcher, just aft of the tripod mast, can be seen.

Nagara-class side armor was a waterline belt 63.5 mm (2.5 inches) thick with the dock protected by 32 mm (1.25-inch) thick sicel plates. The containg sower was not armored. The Nagara class was airmed with seven 14 cm (5.5-inch) True 3 main guits in single

to Reggle coast was aimed with seven 14 cm (253-inch) Type T man gass in single counts, four forward and three all Scottodity armanent was two 12 r cm (3-inch) disalpayone gass in one deable mount. Late in the war the light crussers carried up to 36.2 for the country of the Long Lance! Topoches in four deable mounts. Jerge was modified as an anti-crussed crusser in 1944 and was armed with sail 12 r cm (shorth Fye 98 sail purpose gass in three double mounts along with 12 st mm (1 inch) Type 90 heavy machine gaves in triple, clothed and sailed mounts.

Although class leader Negaron was gain 15 seatin I for the start of World Worl II, the digital nature was surgicial under hithiupness becausing with distorpers self-s 2 and 4 Negaron took gain in lianding anny units in the Philippiness before being assigned to the Eastern Serian Food of the East-Silver Southern Serian Food of the East-Silver Serian Seri

Armament

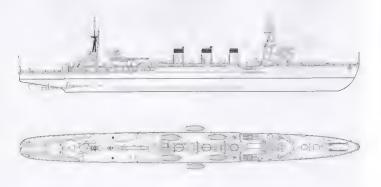


Type 10 single shielded HA mount for a 12 cm (4.7-inch) gun. This replaced the sartier 14 cm (5.5 inch) gun in a semi-turret on some 5,500-ton cruisers as well as *Yuberi*.

light cruiser was straddled by shells fired by the heavy cruiser USS San Francisco but was not damaged in this hitter action

Nagaru met besame flaghing of Deutsyne Senta A dier love of Zirar. While she was a diese of a Facine Non-Bernal flow mitty-received only or misses a minimized by Nagaru ble critical sections of the flatter of the fla

Institute was part of Sentia 15 of the Second China Expeditionary Plear and particular of High King to prevent mem forces from more upon the entry following dey-decking. Institute was sential and institute of the sential and sential and sential and sential and sential and sential and institute of the sential and sential sential and sential sential sential sential sential sential sential sential s



Kuma-class Light Cruiser Tama, January 1942 Armament.

Length 162 meters (532 ft) 14 meters (46 5 ft) Beam: Draft 4 8 meters (15.8 R)

Displacement 5,603 tons standard 7 094 tons full war load Propulsion 90.000 shp/lour screws

Speed. 36 knots Complement 450 officers and men 7 x 14 cm (5 5-in) guns

in seven semi-furrets 4 x 25 mm (1-in) heavy mechine guns in two double mounts

8 x 61 cm (24-in) torpedo tubes in four double mounts. (16 torpedoes carned)

48 offensive mines carried.



Ool in 1932 retains the original straight form of her funnels. The twin torpedo isunchers and boat davits are clearly visible.

Class leader Kums at aso on 12 December 1934. The flared funnels were added in 1930 to prevent stack gasses from reaching the bridge. The new seaplane catapult is clearly visible between raining pun semi-turrets E and F These cataputs were never very successful due to tight space and were removed from the Kuma-class consiers during World Wer. EMM2 New Yore 980-2 floatmains.



of 15-16 October and econtrol destroyers of Sentus 2 Sump the Battle of the Sinsa Cruz Makane of Docksher [103] Cycleburg as alargement percept missions for Galadana on the neight of 1-14 Nevertine (1942, Parta was dismospied by two near mosses from arread bounds in an action solid. A Nevertine (1942, Parta was dismospied by two near mosses from arread bounds in an action solid. May 1944 Trans was put into rip-dock, for narraments shapes and the addition of an exact in that Feldomagn per reflt, the along with Nukla proced the newly formed Sentus 1-4, which was part of the Search Feld Cycle per reflt, the along with Nukla proced the newly formed Sentus 1-4, which was part of the Search Feld Cycle per reflt, the along with Nukla proced the newly formed Sentus 1-4, which was part of exact trans to sociated army until Nextus who had along the Sentus 1-4, which was part of the Search Feld Cycle per reflt, the social perception of the search feld of the search Feld Cycle perception of the search feld of the search Feld Cycle perception of the search feld of the searc

a transport run to Bruner, Juzzu was hit in the stern by a torpedo fixed by the submurine USS Hake.

Assertinguist in vegopore Juzzu was estalon Brun Blave I hit, vaiet of Academo in emobase
launched from submurines USS Gulnhar and USS Charr. Juzzu was removed from the Navy Usst
on 20 June 1945, the Just 5 9040 in 18th cruser to be sunk in combas.

Autor's so Rugshyo of distroyer's feetan 4's during the invasion of the Philippines at the start of Verdit War III. The light crusier was also part of the Tapates ferre at the Butter of Simila. Serial of Batavas when USS Floations and BMAS Ferrit were sunfe. Fellowing she buttle. Nater toolage rate is results arready support and Malassez. Or January, 9-33' you torpedoes field by the submarine USS Tainage blew the stern of the light crusier, but hatter managed in hims took channel. Hardow where she was particled up well crought to proceed for Plankar and Base at Suggapore for temporary repairs. She this word to Malaziaru Jajan, where give manner reprise me carried out of Foldows all perhaps present the Ack Attent's was suspend of the participation of the Ack Attent's was suspend of the start of the Act and the A



Col cuts through the water at low speed in June 1937 showing her very long and stender Tama at see in 1934 hull. Note the lack of a seaplene categorit.







Kiso ned up at a Youcosuka dock on 10 Marion 1837. The two norward numbers are hardo live process of the sinter ship Kurtek. Clearly visible is the box4file shiptucture below the bridge which was cance used for seaplane storage. The Imperial chryssenthemum seal shows up plainly on the bow.

Kitakami on 28 February 1940 was much like other light cruisers of the Kuma class. Shortly after she was converted into a torpedo cruiser which could launch a broadside



paign to take Kiska Island during 1942. Kiso and sister-ship Tama, along with Abukuma, were the only Japanese cruisers to be camouflaged in white and medium gray.

of 20 deadly 'Long Lance" torpedoes





By 19 January 1945. Rizakam had been modified to a Kaiten (Heaven Shaker) (Jansport as seen in this photograph, Launch trisis were carried out near Kure on 18 February 1945 with Kalten Model 2 human-guided torpedoes. Eight Model 4 Kaiten were to have been car-

seen as well as anti-aircraft gun mounts along the side of the cruiser

A Kelten Model 2 on the launch rails on the stem of Kitakemi during trials on 18 February 1945.

A Kalten Model 2 enters the sea off the stern of Kitakami during trials on 18 February 1945. The Kalten was designed to slide stern first into the sea at a top speed of 23 kinsts. Both Kelten Models 2 and 3 were 16.5 meters (54 feet; vinhes) Jong and had a maximum speed of 40 knots.





Torpedoes

93 Shiki, Model 3 "Long Lance" torpedo

C.,

Range

Charge

9 m (29 ft. 7 in.)

Beam 61 cm (2 ft.)
Propulsion Oxygen-fue-led Type 93 torpedo motor

15,000 m (16,350 yd.) at 48 knots 780 kg explosive

Kaiten Model 1



Length . 14.3 m (48 ft 4 m.)
Beam 95 cm (3 ft. 3 in.)
Propulsion 2 Type 93 torpedo motors

Speed . 30 knots Range . 78 nautical miles at 12 knots Charge . 1.55 tons explosive Crew . 1

Kaiten Model 2



Length , Beam Propulsion Speed Range Charge Conw . 15.5 m (54 ft. 2 in.)

One Type 6 torpedo motor 40 knots 83 nautical miles at 20 knots

1 55 tone explosive 2 torpedoes fired by the submarine USS Hardhead Natori sank on 18 August 1944 and was taken off the Navy List on 10 October 1944

I was was the flagship of submarine Sentas 5 at the outbreak of World War II and proceeded to Palau with two submanne divisions. The unit was diverted and took part in the invasion of Malaya. On 8 December 1941 submarines of Sentin 5 were the first to locate British battleship. HMS Prince of Wales and buttle cruiser HMS Repulse of Force "Z," both of which were sunk two days later. Following the sinking of the British ships. Yarm operated around Borneo and French Indochma and was later assigned to the Malay Force. After refitting, the light cruiser was proceed a LoMa. 347's uplace Naka is has not Describe North a Para was assert at the Battle of Midway as part of Chino (Vice Admiral) Kondo's force and returned without damage from this U.S. scenes. Estower goes in sharing the Second Southern Sea Bartle on 24 June 1942. Yang took part in escort duties between the Shortland Islands and Guadalcanal as the UN aned to ston the U.S. advance in that area. On 18 October, off Choiseal Island, Yura was bit by n dual termedo fired by the submarine USS Gramous and suffered only minor damage. The Itelat crusser stayed in action, but a week later, during daylight sheding of Heitderson Field on Good-level she he has a hombe despeed to SHD sombers harm to red onthis to he was bit again by hombs dronned by B-17 hombers from Estitriti Santa. The wrecked chaiser was on 20 November 1942. Yung was the first UN light crusser to be lost during World War II.

At the beginning of World War II. Kim was Tayahiji of Submanne Sente 4 and purcupation the univasion of lives and Mulays. All Colling this extra on the high cruster was suspect to Senan 18 on the Darith Indices. Throughout 1942 and 1943 Kim acted as a fast transport for Senan III was acted as a fast transport for the was dismaged by bombe from high Physing B 24 bears phosthers and was acted on the was of the senantial production of the senantial production and was acted to be senantial production. The senantial production and all force 1944, Kime operated agains as eventy general and a fast transport with Senan 16 to 27 Juneary 1944 Kime's consort. Ingle crusser Kindanne' was troppoded off the Andraine Senantial Consort Andrew was troppoded while operating with Kime on October 23, 1944, and was troppoded while operating with Kime on October 23, 1944, and was consorted accious by the high crusser On 25 October Alma indiced from on Leyer in apportant on the Party Politic Consorted Control by the high crusser On 25 October Alma indiced from the Carrier 155 Montal Brits and seath one Panary Politic view, Sontai 16 was described and factors was school for the Nay, Lot on 20 October 1944 (Ment New was tempoded for the Nay School Brits).

Adulanes was flagship of Detroyer Sential. If the start of World Warf I and heped owner to the Care Two New York of Warf I and heped owner to the Care Two New York of Warf I was not to the Sential Robert Sential Roberts Sentia

While 4bulkurus was on a supply and raiding mission off Panaon Island in the Philippines. a torpedo launched by U.S. torpedo boot PT 137 hit and slowed the light cruiser as (+) 361

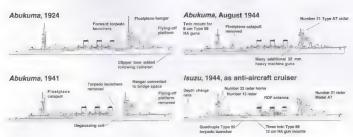




The linoleum deck covering used on Japanese cruisers can clearly be seen in this 1922 view from Kinu's foremast toward her stern. The linoleum was held in place by stripa of brass hammered into tracks in the deck. These strips ran at right engles to the hull.







Negeza at Sasebo during the spring of 1922. The aircraft launch rail is clearly visible.



Natori in 1929. Clearly visible are her davits, torpedo teunchers and turrets.



fauzu at Yokosuka during August 1923.



Negara in 1930 still retains her seaplane launch reil eithough it is no longer in use Some upgrades have been made on the tripod foremast.





Abukuma at Yokosuka during 1932.

Yurs on 28 July 1932. Japanese sellors stayed aboard ship more than sellors other navies. They made extensive use of carves covers over parts of the ship and even hung their laundry out to dry over railings and guns.





Issuzu litting out in the Yokosuka Nava. Yard on 18 May 1932. A new seaplane cataputt was installed alt of the rear funnel at this time. These cataputts were only marginally successful on some of the Magaza-class light cruisers and were generally removed during World War II.

Negers at anchor in China during 1934. The new scaplane catapult is clearly visible with a Nakajima EANZ Type 90-2 reconnaissance floatplane atting at an angle due to cramped space. The scaplane formic is a hoisted against the malimast.





Abukuma dockside in Osaka in October 1933 shows the very narrow hull and conning tower of the 5.500-lon Japanese light cruisers. The Imperial chrysenthemum on the bow is prominent.

Tente took part in the Aleutian campaign to take Kiska Island during 1942. During this initial-Iv successful campaign. Tama along with the light cruisers Kisa and Abukuma was painted In a camouflage scheme consisting of white patches painted over the standard medium gray in an attempt to break up her proble and make her appear shorter like a destroyer. The floatplane, a Nakalima EBN2 Type 95 (Attled code name, Dave I, was soon to be chased out in

Yuhari was flensh n of a supply convey to Sargan between 20 and 30 March 1944. She was tornerload by the submarine U.S.S. Bluegill off Sonsorol Island on 27 April 1944. The light cruiser was painted in standard medium grey with red-brown below the water line



The Nakatima E8N Type 95 Reconnacasance Sesolane (Albed code name Dave') first flew in 1934 and served aboard ships so a apolter and general reconnaissance



The Aichi E13A1 Type 0 Reconnaissance Seanlane (Allied onde name Make)) was in standard use on Japanese crubsers from late 1942 until the end of World War II.



The Mitsubishi F1M2 Type 0 Observation Seaplane (Allied code name 'Pete') was carried on some Japanese cruisers from 1942 to 1945. These floatplanes were used in the short-range role, many times at night

Following massive battle damage. Isuzu was rebuilt as an anti-aircraft cruiser and took part in the battle off Cape Engado, only to be later sunk during a transport run to Brunes by a tornedo fired by the submarine U.S.S. Hake At the time of her loss, Isuzu was painted in standard medium gray with funnel tops and main most top pointed plossy black.



Training cruiser Kashii was flagship of the Number One Surface Escort Division, which protected convoys late in the war. On 12 January 1945, while on excort duty, she was sunk by U.S. bombers. Kashir was painted standard medium gray with gloss black funnel top and mainmast tops. Training cruisers were not armored but carried 14 cm (5.5 inch) main guns





Yahaqi led four destroyers in a daring torpedo attack on the U.S. light carriers during the Battle of the Levie Gulf. While reading the screening force for the super bettleship. Yemeto during the femous "Last Sorite" of the Imperial Japanese Navy, Yahagi was overwheimed by U.S. bombers and sank on 7 April 1945. The light cruiser was painted in the standard medium gray with gross black on the funney and mainmast top. Two Type 0. Jake ' floatplanes were carried.









Although originally designed for action with submarine flotilies, the large light cruiser Ovodo was used as an IJN flagship and was nitially kept out of combat. Ovodo later performed with valor during the battle off Cape Engano when she look Vice Admirel Ozawa and his staff of the sinking carrier Zuikaku Oyodo was paloted in the standard medium gray with gloss black on the funnel and mainment too.









Natori at anchor in 1936 with Abukuma behind. These cruisers fought in World War II in this conliguration but without the white rings on the forward funnet.

Kinu in Hiroshima Bay on 20 January 1937. The sesphane carried at this time was a Kawanishi £7K1 Navy Type 94 raconnasisance Hostplane (Allied code name 'All').





Natori on 3 February 1943 clearly shows range finder additions to the counting tower.

These ships were heavier and code lower in the water than earlier versions.



Abuxumu is bridge on 7 December 1931 during the Pearl Harbor attack Tightly rolled carrivas sheets provided extra sphirter protection for the crew. Modifications to the bridge during the 1937 1938 refl are exertly visable including a new main gun rangefinder stop the bridge an upgraded arbutiercraft posttion below the bridge, and two round lookout and range finder platforms. An additional fire control platform was added to the rear of the mast





Natori in dry dock at Seletar (near Singapore) on 5 February 1943 following heavy battle damage. The submarine U.S.S. Teutog scored two torpedo hits on 9 January 1943 which broke the stern off Natori.

The modified Jazzu running Irials in Tokyo Bay on 14 September 1944 following conversion to an anti-alcraft cruise. This light cruiser was used both as an anti-arcraft cruiser and as an arth aubmarine mop-up also jazzu was flegship of Sentai 31 which provided anti-aubmarine protection to the fleet. A large rader "mattress antenan has been mounti-



living on board as evidenced by the drying laundry hung over the starboard rail.

ed stop the bridge. Main armament has been upgraded to include 12.7 cm (4.7-Inch) high elevation guns in standard Model A.1 emplacements. Older torpedo Isunchers have been replaced with Type 92 quadruple 61 cm (24-Inch) torpedo incunts in the aft wells. This was the ultimate conflouration of a Macara-class fight cruiser.



Observation Aircraft

Nakajima E4N2 December 1932 - December 1936 Mitsubishi F1M2 ('Pete')

Kawanishi E7K1 ('Alf')

Aichi E13A1 ('Jake')

Nakajima E8N2 ('Dave')

December 1936 - Autumn 1942

Aichi E16A1 ('Paul')

Kawanishi E7K2 ('Alf')

1938 – 1943

Kawanishi E15K ('Norm')



The new Yubstr makes 34.8 knots on a trial run or 5 July 1923. The black smoke was a characteristic of Japanese ships that made them easy to spot during World War II Yurwin 1937. The categorit overtops two semi-turnets. The floatplane is a Kawanishi E7K1



Observation balloons were used for a short period of time.





Yubert at Sasebo on 31 July 1923. Shortly after completion the furnels were very low, and stack extensions were added later.

she tried to steam to Coron. While in route in the Sula See, the light crusser was stracked by high \$1 or \$B. 's beniebers. Abulation received two across \$650 and without several near new \$650 feeting the ship in 1 in and almost dead or the water. When fire reached the orientals, the cross utandomed \$6,0 and \$100 feeting the \$650 feeting \$65

Armament



Double Type A turret for super-firing 14 cm (5.5-inch) Type 3 guns. These turrets were used on Yubari, Katori-class training cruisers, and submarine tenders Tinger and Chages.

Yubari, 1937

Type A turnet
Wew guide
RDF antienna
Sengle 14 om

Yubari, 1944

Triple Type 16
Triple Type 17
Triple Type 16
Triple

Yubari Class

The experimental fightermore I understook designe. In Chin. Vice Admind. His according to the work of Santa, Aught in what his with a fine did in the processor. Furthermore in Model tons and all heavy armanient was mounted on the centerline, the warship had the sain, his office. Sometimes are a special substitution.

plas to as fairs some as the second of the second of the second to the place of the second to the Duchs (787 ton high cruiser Trough, the Italian 3 686-ton light cruiser Cominan Romain (both distribuyer higher), and the Japanese 3.4 90-ton large destroyer Aktuaki on anti-atrical destroyer distribution to motive Carners and other cannel shows.

Design at all Japanese "A" class heavy crussers can be linked to the successful Fubari However, and light crussers were built from the Yubari design, as development of this type of worsty [1] performs 928 to worsty [1] performs 928 to worsty [1] performs of the worsty [1] performs of the worst performs of t

The old example of the clars Fallert was find down on 2 June 1922 and June 1960 27 with Mart 1923. The light curious was boilt by the IDF of Sandon Was 1924 was 1924 for such as the IDF of Sandon Was 1924 for such 1924 for suc

Yubari had 57 mm (2.2-inch) side armor designed to protect machinery from 4-inch (10 cm) shell first. The deck was armored with 25.4 mm (1 inch) steel plates. The contains tower two not surface.

Yubari's main armament during wartime was four 14 cm (5 5-inch) main guas in two enclosed mounts, one on the foredeck and one aft. Secondary armament was one (# 39)

Light crussers Jintsu and Yubari laking part in maneuvers during 1927. Yubari represented new thinking in Jacanese crusser design and construction. The successful design of

Torpedo Launchers

Trainable twin torpedo launcher for Type 6 53 3 cm (21 inch) torpedoes These were originally mounted on Kuma-Nagara and Senda-class 5,500-ton light cruisers.



Type 6 53 3 cm (2) Inch) twin

torpedo tubes with spray

Type 92 quadruple 61 cm (24-inch) torpedo tube mount used on Yahagiclass light cruisers and several destroyer classes.



Yubari affected all heavy cruiser design, but no new fight cruisers were built until the Agano class in 1941







Yubari in 1933 shows the original main gun layout end the sarly double torpedo launchers. This light cruster mounted a similar armament to the larger 5 500-ton light crusters but become a problem, one which possibly led to loss of Yubari



12 cm (4.7 inch) HA gun in a shielded 'E' model mount on the foredeck. This replaced a single 14 cm gun in an enclosed indoord. Up to 25.25 mm (1) inch) heavy machine guns to mple double, and single mounts were added to "habora" is the war progressed. Two twin torpedo mounts were provided, and eight 61 cm (24-inch) Type 8 torpedoes were carried. In addition provisions were made for 48 mounts.

Pullowing commissioning on 31 July 1923. Yubari was registered at the Sascho Naval Station. Her home port later was changed to Yokosuka, where it remained until her has a 944 Yuhari notally was assigned to Sentar 3 of the First Fleet along with the 5,500-ton light crossers Tama and Isagu. Yubari made many crusses to Chinese waters during the 1920s and 930s and participated in actions off Shanghai and Woosung, during which she suffered struc-La diutuge from the firme of her main guns. During 1933 Yubari was in dry dock and under went major modifications to her hull, torpedo launchers, and funnel height. At the start it World War II Yubari was operating with light cruisers Tenryu and Tatruta of Sent a 8 which had been ordered to take part in the seigure of Wake Island. Following the success of this effort. Senial 18 proceeded to Truk and then participated in the taking of Rabuul, New Britain, Or 8 March 1942, Sensa 18 provided cover at Kaveine, New Jeeland, where 3 school suffered near masses from aerial bombs delivered by L.S. currier planes from the currier USS Yorktown Damage was minor and later repaired at Truk Following this. Fuburi and her destrovers took part in escort duties for several supply trips to islands around Guadalcanal. On the might of 8 August 1942 the light courser took part in the Battle of Savo Island from which she emerged anscathed after firing at the Allied ships. Fuburi was in dry-dock at Yokosuka. Japan from December 1942 to March 1943

On 1 April 1941 Yadam was assigned in the Eighth Fleet and remained at Rabaul as a guard drip. On the night of 2 3 July 1942 the flight crimers and the echotogres shelled make the echotogres of the echoto

Sendai Class

This was the third and lists group of 5,500 too light crossers developed from the design of the earlier and smaller Terripe (six). More improvements on the preceding Magazer class included a new arrangement of the botters. receiving in a unique must of small and large stucks. Standard and waster ships plants and heads were the only three completed not of six originally ordered, are sufficient to the Washington Terusy squared by Jupan in 1921. The Chemicarcius, terping manimal and as we were sentimen mounted campain on the after deel the compant 52 cm of 11 mels to propolese. Base design hundred the area to the compant 52 cm cf. 11 mels to propolese. Base design hundred the area



(Above) Jintsu under construction during 1924. This was the last class of Japanese 5,500-ton.



Class leader Sendar achieved a top speed of 35.2 knots on trials on 5 March 1924

The newly completed Naka anchored at Yokohams on 30 November 1925





JUNEAU ON 2 December 1928 shows off her seeplane launching platform extending out over the number one and two semi-turners. This system did not work properly in service and was later replaced with a cataput above the semi-turners on the after deck.

Jintsu in 1930 with her new clipper bow added following a collision with the destroyer Warabi on 24 August 1927. Warabi sank as a result of the collision.





Jintsu in 1927 as seen from an observation balloon towed by the light cruiser. Such belloons were used until more reliable floatplanes and catapults were developed.

Sandai off Yokohama on 5 September 1931 This light cruiser was the only unit of the Sandai class to fight in World War II with her original curved bow. At this time the cataput had not been added.





Naka shows off her new cataput, complete with a Nakajims E4N2 Type 90.2 floatplane, in this January 1934 photograph. A new derrick has been added to the mainmast for float plane handling. The ship still retains the launching platform above the foredeck

Sendal during November 1935 has a new catapult and the launching rail over the foredeck has been removed. The 'tall-short-fst-short' progression of stacks was a key identification point for the Allies during World War II





Jintsu in 1938 shortly shortly before going into dry-dock for her last major update.



Fresh out of dry dock on 13 November 1939. Jintsu runs trials off Sato Point in Hiroshima Bay, This was her last major update prior to World War II. The new Type 93 launchers for the deadly "Long Lance" torpedoes can be seen as well as new range finders on the bridge. The maloment has been modified and reduced In size. In final form these light cruisers sat much lower in the water than earlier in their Carears.



Naka at docks de on 3 May 1942. The main/mast clearly shows modifications made during her last refit.



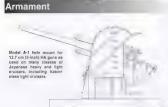
This 1941 image of Sendarat anchor clearly shows the finateum strips on the deck as well as the Kawanish ETKZ Type 94 floatiplane carried on the cataput. These floatiplanes were about to be exchanged for the new Aich ETAM Type 0 floatiplanes (Alized codin name "Jabo").

This very clear photograph of Sendai was taken on 26 February 1939 from the destroyer Nenohl. On the upper deck is a 1 linch (25 mm) Type 96 heavy machine gun mount and a Type 90 RDF antenna lust aft of the number 4 stack. The Kure Type 2, Model 3 cataputt was installed in the 1934 reft. The destroyer Wakaba can be seen between number 3 and 4 stacks. Of Interest is the white-painted tipe of the 61 om torpedo Isunchers. This was syldently done to reflect heat from the torpedo warheads immediately beneath.





Naka seen on 22 April 1942 in World War II trim. Noticeable are the shortened foremast. remefinders on both sides of the bridge, and the much lower position in the water due to her increased tonnage





Naka, seen here bow-on on 22 April 1942, shows her very narrow hull as well as a list to starboard which could have been caused by loading of supplies in progress. The bow is very low in the water. The chrysanthemum on the bow is clearly visible



Sendai, 1941



experimental light cruses Inhara, both at the same time to be Sendar closs proved that might smaller and better protected ships with the some arrangement and speed sould be built. However, the IIN's concentration on heavy crusers meant that no additional light crusers would be built prior to the beginning of World War II.

Vender, as well as the second of the second

Sendent class selection in a sendergree or protect of a separate data from settles carried by US destroyers. The side belt was 76.8 meters (25.9 feet) long, 4.9 meters (16.1 feet) wide and 6.4 cm (2.5 inches) flick. Deck arrior was 5.0 cm (two linkes) tolks, and 5.0 cm flicks plates also protected the coming tower. These ships proved vulnerable to 5 toch (12.7 cm) belts sarried by 1.8 destroyers, from World War.

The Worlda's man agranoment in wattine was seen left on 155 treich Type, Vinna gon men in war, is trace, a few and few

All ships of the Sendal class were laid down between 16 February 1922 and 24 May 1924

and were Line double were 3. October 192, 202 by May 1, 22 Dies were a commission.

by wt N. sember 1925. Sender was a set of the Mroubish at Nagasak. Jintsu A. Kawasaki at Kobe, and Neike by the UN at Yokosulla Naval dockyard.

The class feeder Sendia and her four destroyer Sentian sortied with transports containing the Malay for some force on A November 1941. The transports fasioled army consistency of the some feeder of the Sential Se

Sender was entired at Suppaper following the detect of the Break. We was efficied on "A 39% of M.". The state and on made Masses Experience with Experience size of the sense of the offset generally a consistent Masses. You make many an electric section of the sense of the means. Common Sender with the Masses of the Masses of the Masses of the Masses of the means. The sense of the Masses of the Masses of the Masses of the Masses of the of Gradien and a sense of the Masses of t

The extraction of several proceeds or Reliand is support as earn between the Security of the Life, or or or deletings we again of Section Reliance in the Security of the Proceedings of the Proceedings of the Security of Se

Auka was flagship of Destroyer Sentai 4 which took part in early operations in the Proposition In Charles to Department of the obstance was rated a Paolitica the NATIONAL OF THE TOTAL STANDARD SERVICE be it. I is been been up to a been die and Dirit he is 94° as the helpt s to see a control of control of the first form cross & VVIII council studies for second White Series a Feet country along the same as a first transitional question being being and in Naka nitar a see a laboure it said in Nakabelov exert as report in the acthe first transport of the boundary of the bou of the Java Sea, in which both crumers launched torpedoes but were not hit themselves. Then, during operations on 1 April 1942 while she was supporting the invasion of Christmas Island. Naka see street by the selected with a more in SSN as at 11 whitement a profession the early a country of the darbeig back is the reason to page to other by a good an inthey we will be an in both to be a future of the both a post cash? in a part for exercising a Select No. doc Nata associated to Second on the explosion of a could be both a both will be been

 ass at the disabled light crusser Agano and soon came under aerial attack by aircraft of U.S. Task Force 58. Naks servived the first two adtack waves but suistanted a toppedo his on the starboard side compounded by a bomb state near the bridge. The light crusser broke in half and sank in flames caused by leaking fuel oil. Naka was removed from the News List in 31 March 1944.

Janua streed World War II as the flagglup of destroyer feeture 'noted the command or apaths Status flexar Adman,' Tantana Razus Genta? Launched an antack on Dassen in the Palau (Istanto an 0. Descender) in 14. Launche, light, or a consist supported an antack on the Palau (Istanto an 0. Descender) (14.1 Launche, light, or a consist supported and lange in the cupture of Dasso following the successful occurred in the Palaul (Istanto and her destroyers were part of the Dasich Islanto and her destroyers were part of the Dasich Islanto flates Invasion of the Palaul (Istanto and Islanto (Istanto (Istanto and Islanto (Istanto (Istant

Training cruiser Katori at Yokohama, just after completion in April 1940. These ships were not

I s. Sine ag U.S. landings on Gondalezmal, Sentia 2 was ordered to Truk to get resuly for the conting hatter. So the majes of [18] 19 Aganga [1921, Japanose destroyers haded troops on Guadelezal while Jentare and other destroyers executed several transports bodied with troops that were in hand on the contracted stand While the convoy was still 150 miles of the Condidensal, U.S. Damieles of the bonders attacked, said one transport, and to Jentare with Condidensal, U.S. Damieles of the bonders attacked, said one temporar, and to Jentare with Linear with Linear with the contraction of the forecket. Japanos In NA everymen and could only mitted 12 kinch back, to Trak, where emporary repairs were made. Should Tanaka transferred to first go to the contraction of the con

On 8 34), 1943, Antar left Trak with decreases based with amy troops in the landed on Knobenbagars Inform On 12 July, a floralizer radious sylamps of 15 C critices which were specied shortly threather the planetes when Jihate specied for and tried to manuscree that spatient of necessive segrecular and secondated guide from the light crisises. USS St. Honolane USS St. Lour, and HWNZS. Levador during what is known as the Buttle off Kolmhungura contains the specied of the specied state of the specied state of the specied state of the content was removed from the New Leva Leva Of Stermetre 1940.

however, considered cruisers by the Allies during World War II, probably due to their main





Kashima off Shanghai on training cruise in August 1940.

This port beam view of Kashii dates from 15 July 1941. These small training cruisers were about the size of Yubari but with a top speed of only 18 knots. Kashii, unlike her two sister



Kashima off the Japanese bastion at Truk Atoli during 1941. The Model A 2 turrets are the same as used on Yubari.

ships, was built from the start as a fleet flagship and served in this capacity at Singapore.





Keahn at Seletar (noar Singapore) on 17 April 1943 in her rote of fleet flagship. By 1944, the foremast was much shorter with only one apar. The Model A 2 turnet is clearly visible on the foredeck.

Katori Class

In the mal to late 1980s, with war occurse, certain the need for imming an increasing nearby, it extensifies for integrated passers. Show Sections apparent flower is protected control of \$50.00.00 tight critical section in its object of the control of the con

The Adarot skes trainer versions were not designed for combat and were in the same. The task is special server weeked such as present plans, softening soft ophing fast of latellite. A reading special server weeked such as present plans, softening soft spread in arministic at a server of the sames because the server like sames become and the server like sames become and the server like sames become and the server of the sames because the server week to same because the server week to same show the server week to serve the server used as supposed to the server to anti-substance of the server used as supposed to the server to anti-substance where the server used in the server to anti-substance and server and server like the server like server to serve the server of the server like server and server the server of the s

In summe from dations class to maning crimens were 13.4 meres (43.15 feet) long with a most of 1.60 meres (54.15 feet) and a most affect of 57 meres (14.15 feet) long with a feet of 67.65 feet) lone. What is feet of 67.65 feet of 18.7 feet. The risal 48 placement was 6.152 lone, what is full war loud of 67.53 lone. Relater's class training crimers lad a feet of 67.55 lone. Relater's class training crimers lad feet of 67.55 lone. Relater's lad feet of 67.55 lone. Relater lad feet of 67.55 lone. Relater's lad feet of 67.55 lone. Relater's lad feet of 67.55 lone. Relater's lad feet of 67.55 lone. Relater lad feet of 67.55 lone. Relater lad feet of 67.

Katori-class training cruisers were not armored but had strongly built hulls

Autor-class man armaners was four 14 cm; 55 such Type 3 juns to two ten stores, on one feededed, with the econd on the infection. These juns and querts serve infects all of those mounted on the light centurer Tabled' Secondary armaners was six 1.27 cm; 51 cm² for short dates junope gass in their even moutes. Up to 10° 55 mm; 1 cm², 1 year, 1 year

Amour and Anahours made one training cross prior to World Wei II, from 7 August to 25 Secretarile 1903 OF training squadrow was declavation, and on 15 November 1908 Anton became tlagship of solar sone Sentia 1 minking only one crosse in this expacty in southern became tlagship of solar sone Sentia 1 minking only one crosse in this expacty in southern She was at Kwaudern in this capacity on 1 February 1942, when the was attacked by Tall Decisiants respond solorises from the camere 1955 Emergerize and disrategal by near missis Kateri was sent to Yolocsaka for tempers after which the respect to the man beau at Tall, and Kateri was sent to Yolocsaka for tempers after which the respect to the major threat missis Kateri was sent to Yolocsaka for tempers after which the respect to the mind them at Tall, and February 1944. De II February Anterior was sungred to take 6, sent of Secret Command and sent flagship of a convoy, that was headed to Japanese waters. While en most, the training and was toppoleded by 15 sentent on 17 February 1944 but missing of district Rev cross reasons was toppoleded by 15, sentent on 17 February 1944 but missing of the 1858 Review 184 they in the Changequela. USS Pro-Orient and deservery in USS Return 4 that by 8 neck



shells and torpedoes, Autori had no chance and sank. She was removed from the Navy List on 11 Mars h 1944.

Authority became flagship of the Fourth Fleet on 1 December 1941 after which she left Trisk.

and helped over landmassial Rahaul and Karveng (Dr. May she was part of the Pert Morends extract operation, but following this samellisms be ended up that at Trulk Auditions we the assigned as framing shop at hour form December (1943 to Jamus) (1945 5 the six med as a training stopped as framing shop at hour form December (1945 to Jamus) (1945 5 the six med as a training land part of the six measurements of the state of the six medium and training to the six measurements of the six medium and the six medium and training six medium and training the six medium and the six medium and foreign and was all values when the six medium six medium and the six medium and the six medium and foreign and was all values when the six medium six medium and the six medium and the six medium and six medium and the six medium six medium and the six medium and the six medium six medium and the six medium and the six medium six medium and the six medium and the six medium six medium and six medium six medium

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Agano Class

Japanese light crosser development had suffered following the experimental light crosses. Judan't the design and construction of which helped solidity the design of subsequent heavy crossers. The 5 501 not design were moderneed as much as possible but were lightly as and atmosfed. In the light 90x most designer Publish do elsowed now had an designer, seemes of lights removes to be destroyed some distribution. This role, they had to be small and fails more seemed with the publishment of the second of the second of the second of the small and fails more seemed to the second of th



Kashiii dockside at Seletar in 1943. What appears to be a Kawanishi E7K2 Type 94 Hoatplane aris atop the estapult. Most of these aircraft were phased out by 1942, but a few survived into 1943.

This serial view of the Kashima dates from 1941. Those small training cruisers had turrets, torpedo launchers, and a cataputt at the expense of speed because of limited space for additional horizon.





The new Againo training at Truk on 7 December 1942. The chains on both sides of the bow are for towing minesweeping paravines. Wind bafflee can be seen beneath the compass bridge. At this point the light cruiser carried a Mitsubishi FINIZ Type 0 spotter floatiplane (code name Pete) sheed of the cataput and an Aichi E13A1 Type 0 reconnaissance floatiene on the cataput and an Aichi E13A1 Type 0 reconnaissance floatiene on the cataput table type 0 floatiblanes were carried.

Yahagi leaving the Sasebo military harbor on 19 December 1943 just prior to commissioning. The catapult is a Model 5 Kure type rather than the Model 11 used on sister-ships

Ageno-class crimient seem small and lightly armed when compared to U.S. light crimient in the lidenta class which were 608 feet (18.5.3 meters long and had a fail war lead displacement of "'72 most, but the U.S. Naviv, unlike the U.N. dat not use light crimients as destroyer floidla teaders. Ageno-class light crimient carried a very beavy scopedo armament, whereas U.S. light emisses, with the exception of the Adalman class, did not carely intended.

The lead step Aganou and system-steps, Northine Yalangi, and Sadarun were lead down from 18 found 1940 to 21 November 1949 to at 1900 to 21 November 1940 to 21 November 1940 at the contention watering person in Agano was built by the IJN at Sadeo Nary Yes and associated was controlled by the IJN at the Victoway Rays and and was commissioned on 30 June 1943. Yalangi and Sadarun were both built by the IJN at this Sadeob Nasy. Yes and and was commissioned on 30 June 1943. Yalangi was constitutioned and 30 November 1944 and and was constitutions and on 30 December 1943 and 30 November 1944 respectively.

A lessen for a class of "improved Agano" light crassers, which included heavier gan and onseds armament, was considered but never built due to the progress of the way

In waterine configuration, Agains-Lass light crisisen were 174.50 meters (572-4 feet) in length with a band of 15.2 meters (496 feet) and ment and right 6.57 meters (187-6 feet). The displacement was 7.895 inm. Full war load for the Agains was 8,534 lons, slightly less for the seasons. Agains-Gazz crimers had us. Kargoni bullers with super likedars and load rest to 6 impuble gazzed surbines. Available 100,000 shall horsepower driver four series providing a maximum speed of 35 knots. Plamend rights of action was 6,000 satteral limes at 1.8 knots.

Aguno-class armor was a side belt of 60 mm (2.34-inch) steel extending beyond mack very spaces. Deck and conning tower were armored with 16-40 mm (62-1.56-inch) steel plates

Agains-class main armanient in wurtine was six 15.5 cm (6-inch) Type 41 guns in three double hurres, two on the foredeck and one aft. Secondary armanient consisted of four 8 cm (4-inch) Type 98 HA gims in two "A"-model twin monitis. Also carried were as many as 61.25 min (1-inch) Type

Agano and Noshiro. Yahagi a Type 94 HA directors were further forward than those on the two sister-ships.



Vahagi, 1945 "Furnet for Bindal fournel Two beln mounts for 8 cm Type 86 HA gains

Basic Design, Improved Agano Class



The new tight cruser Noshiro making 35 knots while on trials off Tokyo Bay during tate June 1943. The dark object on the Model 11 cataput is a mass equal in weight and location

96 heavy machine gams in triple and single mounts. The Agano class was designed to early 16. Doily Lance torpictive, aims for some single per analyse for some life some way made for 106 depth charges. Two Anelii E13A scout scaptines were carried, one on the contentine catagott and another on a platform above the torpodo mounts.

sgame was regardered and prepared for war at Kure Silve replaced the *500% on light curves (August an skipple) of the Destroyer Season. Us which remodated is the the horseland for the balea is a 1 feet 3 of the Silve Si

On 5 November 1983, Jagmens extusers were attacked in Robard Hudror by U.S. Ravial and C.P. In 2 Spran of the x-x Northern oxerval, x for forms x forms, he have summed to make most Following this action, both crimers left Rubus Hubror in typ to intercept the L.S. Detent Oxford Fords and the first first was for the and was called off Upon returning to Robard, which had now become a depair trap for the UFA, Agenow was torpedede cottoide the hubror by a Tilbs bender. The explosions obserted off the seven, but speck across the best first was following energies; perpar at Robard sheet first Finsh to 12 November 1983 vocasional USA was a series of the series which the proposition of the series was the size of the series which the series was the series of the series which was a series of the series of the series which was a series of the ser

to a scaptane. The Type 94 high altitude director and rangefinder is just eft of the stack. The shape of the Type 94 main gun director atop the bridge is different from that of the Agang





Yahagi swarts combet in Lingga Bay with other units of the IJN during October 1944. The two Aichi E13A1 Type 0 ('Jake') floetplanes on the centerline are visible.

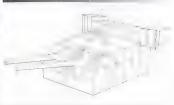
m soes near the bow. Her number 2 turret was got out of action, and her bull was damaged below he water! in Numbers hade here were like to quick repairs. There is need the damaged our for larger 1 had pain out for inter-the like the quick repairs, there is need to haden useful to Lineage Royals near Sangapore for training following completion of repairs at Yoksouka.

After completion of her repairs. Aguino sortied from Trak on 15 February 1944 for Japan, but north of Trak she was torpediced by the submarine USS State. Two hits sealed the face of the burning light cruster, which saik on 17 February. Aguno was removed from the Navy List on 31 March 1944.

Yahagi was commissioned at Sasebo Naval Yard where she was also registered. This new gifts ruiser was minecate viassigned as flagship to Destroyer Senta 10 of the Third Flect response the sasken-dagno Becamae Trakand Rabad were ne longer safe. Yahagi

Sakawa at Sasebo on 24 November 1944 just before commissioning. When completed this light crulser mounted a very heavy anti-arcraft armament which had been found necessary by this time late in World War II Because of lack of fuel Sakawa spent time in the

Armament



The 15.5 cm (6-inch) Type 41 twin gun turret was used only on Agano-class light cruisers. This turret has range finders and a tripod which anchored intercom cables.

Inland Sea training with new destroyers. In July 1945 she was transferred to Malzuru Naval Yard, where she was surrendered intact at the end of World War II





Sakawa, with all her armament removed, about to be towed to the atomic bomb testing area at Bikini Atoli on 20 February 1945. The light crusser was anchored at a range of 500

was ordered to Singapore, where she trained with Noshiro while awaiting the inevitable action in the Philippines. Both light cruisers and their destrovers joured the First Mobile Fleet and participated in the Battle of the Philippine Sea, Noshiro with Vice Admiral Kurita's force of battleships and heavy cruisers, and Yahani with Vice Admirol Ozawa's arriers. Pollowing the pivotal sea battle, both light crassers retired to the Inland Sea. Both were then assigned to Kurito's First Raiding Force, which engaged U.S. light carriers off Samur during the Battle of the Leyte Gulf. Yahagi sed four destroyers in a damag toroutattack on the U.S. light carriers and succeeded in launching tornedges a attack, my but took a 5-inch she. Fired by the destroyer USS Johnston which damaged through er a structural

The light crusser was further damaged by near misses on the retreat from the Levie area Norhiro, with seven Sento: 2 destroyers, opened fire on U.S. excort carriers but was but on the starboard side by a 5-inch shell fired by a U.S. destroyer that did little damage. I a cr the 19th cruiser suffered several near misses near the stern which ruptured the outer plat ng of the bull. S owed by the dismage. Nashira was attacked by ameraft while retreating to Brunel Buy. The agile ship eyaded six aerial torpedoes, but one caught her amidships ess light craiser was attacked again and hit with an serial torpedo which flooded the bow Gooming the ship Nashiro was removed from the Navy List on 20 December 1944.

Lahagi reached Branes where she was assigned as flagship of Destroyer Sentas 2 replacing Nashira. She escorted units of the First Raiding Force, but on the way back to the Inlan. Sea hattle conser Resten was loss to the submarme USS Sealon. While refuting at Sasebo, Janan, Taisa (Captain) Hara Tames, in, famous for his destroyer exploits, becamthe last commanding officer of Yahagi Yahagi and Sentai 2 alone with the (10 55) receiving severe stern damage. Sakawa sank the following day

Yahaor under attack by an overwhelming number of U.S. aircraft on 7 April 1945 during the famous "Last Sortie" of the Imperial Japanese Navy. The super battleship. Yamato was also sunk during this mission.







Agano-Class Light Cruiser Yahagi, 1945

8 534 forms full war load (15 torpedoes carried)
Propulsion 100.000 shp/four screws Provision for 106 depth charges

Complement

805 officers and men

super ball-ship Yamata, were ordered on a non-way attack on the U.S. Bix van harved or Olamowa, but on 7 April 1984 the small little was popted and analyzed by waves of U.S. some attential which many plants from the Olamowa shortine. Yahagi was but on the viasure of the control of the c

The Last Fallings, casts light, crimier was Sudianea, commissis, sed a Nacebox will Wiscontelle MS Sudianea from the Pales of the Sudiane high crimier Fannea a Highpy of Deriverye Senna 11. Lacks of facel preserved that higher near their properties of the sudianea of the Sudianea was set of the Sudianea was settlemented to the S

Oyodo Class

Januarese naval doctrine called for crussers to verve as flagships for destroyer sentary also found in contemporary British naval organization. In contrast, US naval strategy called for sensor officers to command destroyer Botalas from flagship destroyers and for submannes to oper see either worky or in wolf packs with loose command structures like those of the German Krengsmarme Some of the Japanese 5,500-ton light crinsers operated as flogslops for submarme sentacs, and pleas were started in 1938 to design replacements for the older warships. However the concept of cruiser as submanne flagship had not been well thought out, and consequently sevend natically different replacement designs were studied. One was for a 6.600-ton dup with no heavy gans and a large cataput on the afterdeck. Another was for a 16,000-ton aircra-carner that Inoked much like the light currier Ryago. However, the final "C-class" design which emerced in Dutuber 1938 was a large light crusser of about 10,000 ions displacement, similar to that of the LSS Brooklyn-class hept emisers, and similar in appearance to the Agano class, with a floatplane catapt It on the after deck and a large far to thought. Who, Opodo was trank completes to February 1943, the war situal on had shown the IJN submanne strongs in the Plant of and transfer the remaining submannes were turned into transports to supply island garrisons. To further complacate matters, the new Kawanish, E15K1 Shinn I violet cloud "allied code name 'Norm') float planes execually deserted to operate from the shap were not ready so Orade with its large attentall be again been a like you was a first been been been been a war mad as been been Maff officers and communication equipment, and the catapuli was reduced in size in a radical scrurture from other Januarese cruiser designs. Oyodo carried no torpedo armament

Oyodo was find thown on 14 February 1941 and faunched on 2 April 1942 at the Kure Naval Yard Sister-ship Niyodo was undiversed but never laid down due to shanging fortunes of war that caused her samed atten. Oyodo was registered at the Yokosuka Naval Station until her loss later in the war In wartitine configuration, Oyodo was 1920 meters (6300 feet) in Reighli with a beam of

In wartime configuration, Dyada was 192.0 meters (63.0.6 feet) in length with a beam of 16.6 meters (51.4 feet) and a mean draft of 6.1 meters (19.6 feet). Design displacement of Dyada was 9,980 (ons, while trial displacement was 10.417 tons. Pull war load was over



Oyodo at anchor in 1944. Two of the triple 15.5 cm (6-inch) turnsts removed from the Mogami class cruisers during their conversion to heavy cruisers were, in turn, mounted on Oyodo.

11,433 one. Ovade had six Kanpon three drum, water tube bothers with re-heaters driving our cast of general turbones. Turning four screws, the 110,430 available shaft horsepower provided a top speed of 38 knots. Planned radius of action was an exceptionally efficient 10,315 natural miles at 18 knots. Complement was normally 776 officers and men, more when operating as a floating command post for afterd staff.

Ondo carried a beli of venteal 60 mm (2.44-inch) armor that covered michinery spaces A mappe forward how mode the hall was protected by spaced and suppet discle belts varying ample forward how mode the hall was protected by spaced and suppet discle belts varying beltween 10 and 15 mm (2.1 inch) steep lates armor was 30 mm (2.1 inch) steep lates and the may_armored and 50 mm (1.0 5-inch) seep plate protection. The contemp tower that 40 mm in (1.6 inch) steep plates protection. There were no half blisters. Oyodo was fairly well protected when commend to a label to light crosses.

By the time Oyodo was ready for combat. Japanese forces had refrequed from Guadalamal and were on the defensive in the face of large numbers of new allied warships. At first, the lare, light cruster was to provide protection for carriers with her fast-fring 10 cm; 33 unch as a set line scooling capability with her three-seat Novy Type 0 couplance. For every month, Order crustated in readness at New runth the went to financists. We for

Ovodo as built, 1942



Ovodo, July 1944



Oyodo at Kure during late June 1943. The special 44-meter Model 10 catapult visible here was removed when Oyodo was converted to the Combined Fleet flagship in March 1944. The range finger tower seems to be white, a symbol of ships attached to the Rengo Kantai (Combined Fleet). The A4 rader antenna was attached on the front of the range finder Acid with Re Range Kantar (Combined Flest). The light critises helped carry reinforcement to propose heating, the Period of December and 1 January (1444. The force was stanked by U.S. sitesoft, and Opodo suffered metalizing pan his to the lath Reinforce just stanked by U.S. sitesoft, and Opodo suffered metalizing pan his to the lath Reinforce just stanked by U.S. sitesoft in the lath of the skiple, Opodo seronds with Chapic (View Admined Oposse's main though and participated in the Ballet of Ender Jettine He first curries such, Joyande was hit by voctors first by a Genman Pofforce of the lath of t

After the Balle of Layle Golf, Opole caused to be flagship of the Combined Feet. The fight critier was in Bixense and Singapore of several seeks and the sjented the havey critiser Ashigures to benshed the Sin Jose beachbasel in the Philippines. During this section, 18:29 benshers of the 71 til Bomb Sequention, Alls Feet exch. In Opole with the 1950-pound (250 kg) bombs. The light critiser was regulared at Singapore in January 1948, On to Sectionary 1945, Opole and batteriols, Feet and Playage, allow just destroyers, the Singapore with London of ref-Opole and the 1945 of the Singapore with Contract (150 kg) and the Contract (150 kg) of the Singapore with Contract (150 kg) of the Singapore with Contract (150 kg) and the Singapore with Contract (150 kg) of th

tower. The new Kawanishi E15 K Shlun ('Violet Cloud') floatplane was intended for the Oyodo but meny bugs kept the new aircraft (Allfied code name 'Norm') largely out of combet. The crew has hund the washing on the bow railing for driving.

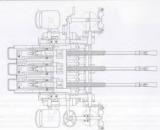


Anti-aircraft Armament

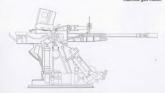


A gun crew trains on one of the four 25 mm (1-inch) triple heavy machine gun mounts atop Oyado's hangar/staff headquarters during the fall of 1944. The rear of the funnel can be seen to the right with the top of the RDF antenna visible near the center of the photograph.





Type 96 triple 25 mm machine gun mount





Oyodo stands by the listing fleet carrier Zuikaku during the Battle of Cape Engaño on 25 October 1944. The light cruiser was transferring Vice Admiral Ozawa and his staff from the

Oyodo being scrapped on 17 January 1948 at the former Kure Navy Yard. The patch fitted over bomb damage prior to towing can be seen on the starboard side. The Mogami -type triple turrets are of interest as are the wind baffles below the bridge and the radar antenna above the bridge. The funnel appears to be missing.

Anti-aircraft Armament







USS Seawo//which blew a 3-foot hole in the starboard side, putting Make in drydock until 5 April 1943.

was overwhelmed by U.S. carrier aircraft on 7 April 1945, resulting in the sinking of Yamato and Yahagi well short of the invasion beaches of Okinawa.

